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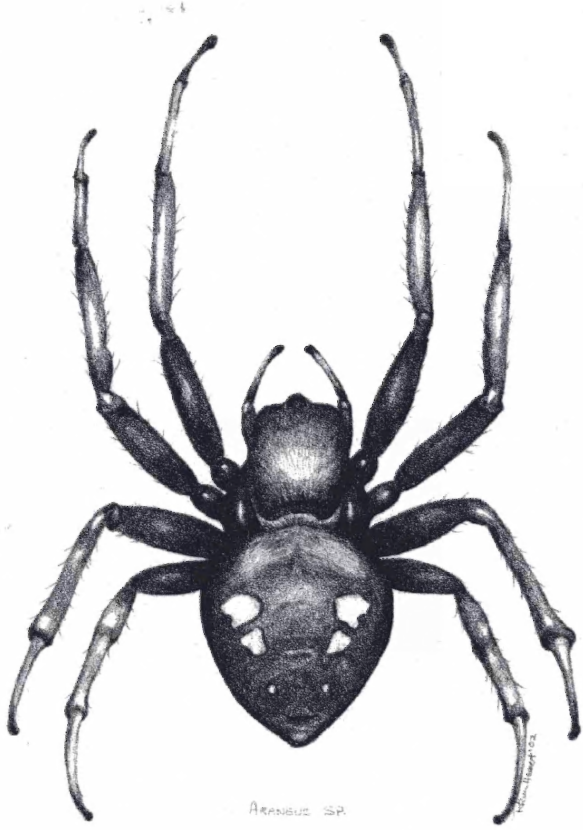

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THE COVER

Robbie van Hemert from Newcastle won second prize at Freemantle in the Society Insect Illustration competition with this drawing of a spider.

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NOTICE

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COPY DEADLINE FOR NEXT ISSUE

Material for publication in our October 2003 issue should be in the hands of the Editor before **Thursday 16 October 2003**.

Copy is requested as .rtf e-mail attachments at: laurence.mound@csiro.au

EDITORIAL

The loss of our good friend Dick Norris, announced in this issue, will be felt by all who knew him – and many who did not know him personally. For several years Dick has tottered past me almost daily, and we have indulged in those archetypal old men's discussions – about the failure of some of our own bits, and the failure of present day youth to develop their bits. Dick, with his customary cheerfulness and erudition, has been a frequent solace. Now to whom do I turn when I have a tricky grammatical problem, or feel overwhelmed by the present-day flood of "Yer know.." and "Like, I mean..". Tom Bellas draws our attention in this issue to one of Dick's attempts at coercing an editor to recognise precise English. Dick knew that language is a tool needing careful handling and constant honing, if precision in communication is our aim. But then in this age of political fudge, perhaps precision is not the aim, and bad grammar has itself become an effective tool.

Also in this issue, the President draws our attention to the steady loss of AES members. Societies, both learned and otherwise, developed as places where like-minded individuals could meet to exchange ideas. This usually meant sitting down over a meal or a drink. Australia is too large for AES members to do that very often, although Tara Simmul notes that our WA members met independently recently, and perhaps more of us should consider emulating this. The reasons for having such a Society are rather diffuse. For most members the traditional reason – to enjoy the society of others – is either not particularly important or scarcely feasible. For some of us, membership of the Society is a professional responsibility, akin to membership of a trades union or professional association. The AES represents us professionally at a variety of levels, and as professionals many entomologists feel a responsibility to become members and support the Society. The problem is that many biologists working with insects no longer see themselves as 'entomologists', and I am sure that I am not alone in trying, unsuccessfully, to persuade some postdocs that membership is more important than a drain on their purse.

Some members feel it is important to support the Society in order to ensure the future of our journal (by

that I mean AJE – not Myrmecia!). But views of our journal are curiously ambivalent. Working quietly in the lab of a well known entomological institute recently, I listened whilst a group of staff drinking coffee expressed opinions about AJE. "It's so boring – mostly taxonomy" came across the benches. Apart from the obvious factual inaccuracy, in that our editors manage to compose a remarkably diverse menu for us, I fell to thinking evil thoughts, like "when did one of you last write something interesting, let alone publish it in AJE". Journals are a bit like sewers – what comes out is dependent on what you put in! An editor has only a limited control over the flow – a fact of which this writer is all too conscious when trying to provide all of you with a quarterly picture of what is going on in the entomological community of Australia.

LAM

Why we have an Australian Entomological Society

We measure the success of our Society by the things we do. We continue to run an annual scientific meeting with around 100 people attending. It is an opportunity for members to meet colleagues and talk about their work. Meetings are held in different centres representing an excuse to travel around Australia. I had not attended for a few years, and was impressed at the recent Fremantle meeting to see as well as colleagues from around Australia, a good number of students, a smattering of international visitors, some excellent papers, and the chance to meet some old friends. The meeting was well run and had a friendly atmosphere. The Society publishes a journal which is gaining in international status. This is a major cost to the Society, and is the flagship by which we are seen in the outside world. The move to having our papers available online will greatly increase their accessibility to overseas scientists and thus their impact factor. In the recent renegotiation of journal contract this was a factor the Executive believed was very important. The Society publishes a stimulating and informative newsletter sent to all members, which provides up to date news of members. Next year the Australian Entomological Society is for the second time due to host the International Congress of Entomology which will attract leading entomologists from around the world to Australia. The indications so far are for a most successful meeting. The discipline of entomology is still strong in Australia, as measured by the number of Entomologists in senior positions. However are we keeping up the flow of young scientists coming into the discipline who count themselves entomologists rather than geneticists, or agricultural scientists?

Yet in spite of all these positive measures the Executive is concerned at the number of members who are failing to pay their fees and thus are being struck off membership. This is not being matched by the number of new members joining the Society. It is not serious yet, but we should consider the reasons. The Society obviously has to offer benefits to those who pay subscriptions. I cannot believe that the cost of the subscription is the major factor. Average relative incomes are higher, and one annual subscription does not cost more than two people going out to one good meal or one show. Of course most of those reading this are not the problem; you are already paying. Perhaps we just need everyone to try and put a bit more in by encouraging a friend to join or to continue to pay their subscription; to come to a meeting and so on. We are looking at ways to make the Society more attractive. In the meantime please let your Executive know if you have some positive ideas.

James RIDSDILL-SMITH,
President

Dick Norris

The following notice was issued to CSIRO Entomology staff by the Chief of the Division, **Joanne Daly** on 14th July.

With considerable sadness I relay the news to you that Dr Dick Norris passed away in hospital last night. Dick had an extremely distinguished career in Entomology spanning more than 60 years. He joined the Division of Economic Entomology on 31 May 1937 after first class honours at the University of Western Australia, as a temporary research officer in Western Australia. During his career he made significant contributions in insect taxonomy and general biology, red-legged earth mite, buffalo fly, cattle tick, sheep blowfly, screwworm fly, clothes moth and bush fly. Dick was made assistant Chief of the Division of Entomology in 1969, and in recognition of his unique contributions to the Division, became Associate Chief in 1977. He was awarded a Doctor of Science from the University of WA in 1969. Dick retired from the Division in March 1979, and since then continued his association as Honorary Research Fellow. During this period he continued his taxonomic studies of Australian Calliphoridae, and published important contributions up until very recently. Dick is survived by his wife Dot, two sons, Richard and Murray, and their families.

A Tale of Two Dictionaries

Late last year at a local library I came across a copy of the Federation Edition of the Macquarie Dictionary. I was reminded of the damning review that Dick Norris

produced for the Society's Newsletter in 1983 (*News Bulletin*, May 1983, pp. 42-43), so on returning home I dug out the review, made a list of words that Dick had made comments upon, and went back to the Library to compare the two editions.
In the following **A** refers to The Macquarie Dictionary, Macquarie Library Pty Ltd, 1981 and **B** to The Macquarie Dictionary, Federation Edition 2001

blowfly – with reference to *Lucilia cuprina*
A: the blue blowfly
B: [corrected to] the green blowfly

blue-arsed fly – once again *Lucilia cuprina*
A: the blue blowfly *Lucilia cuprina*
B: [corrected to] the green blowfly *Lucilia cuprina*

brooder pneumonia
A: *Aspergillus fumigatus* bacteria [a fungus, as the compilers of the Oxford Dictionary knew 100 years ago]
B: [uncorrected]

Charles Law
A: no mention of temperature
B: [corrected to] . . . of the volume at 0ºC

coevolution
A: contemporaneous evolution . . . from a common ancestor
B: [uncorrected]

gossypol
A: undecorticated cotton seed cake [only]
B: [corrected in part by referring to] . . . toxic crystalline pigment.

horsepower
A: ...550 pounds-force per second . . .
B: [corrected to] . . . 550 foot-pounds per second

meat ant
A: of the genus *Leptomyrmex*
B: [uncorrected, with no mention of *Iridomyrmex*]

megapode
A: Megapodidae [includes] the superb lyrebird . . . brush turkey, the lowan, and the jungle fowl
B: [uncorrected, the lyrebirds are Passerines]

pastoralist
A: one who grows cereal crops in addition to raising livestock . . .
B: one who owns land used for raising stock . . .

pleuropneumonia
A: disease prevalent in northern Australia . . .
B: [uncorrected, it was eradicated before 1981]

screw-worm
A: the larva of a dipteran insect, *Callitroga macellaria*, widespread in America . . .
B: 1. the larva of a dipteran *Chrysomya bezziana* widespread in New Guinea . . . 2. a similar larva of the insect *Callitroga macellaria*, widespread in America [still no mention of *Cochliomyia hominivorax*]

slaughterman
A: a person working at an abattoirs whose job is to kill animals and remove the hides and stomach contents
B: a person working at an abattoir whose job is to kill animals and remove the hides and stomach contents [spot the difference, the error remains]

smallpox
A: an acute highly contagious febrile disease . . .
B: [corrected to] an acute highly contagious febrile disease . . .; now eradicated

yellow fever
A: . . . transmitted by a mosquito, *Aedes* (or *Stegomyia*) *calopus* . . .
B: [uncorrected, the name being many years junior to that of the vector mosquito, *Aedes aegypti*]

The report card is not particularly encouraging with a score of eight corrections out of fifteen and even that is giving the benefit where an incomplete correction is counted as one. Dick Norris was puzzled by the inclusion of entries such as Colorado beetle, slave-making ants, bumble bees, and tortoise-shell butterflies with no reference that they did not (then, in the case of bumble bees) occur in Australia. This may be explained by the fact that the origin of the word list can be traced back to the Encyclopedic World Dictionary (published in the UK in 1971) and the compilers of that dictionary had in turn used a word list from the American College Dictionary (first published in 1947 in the USA). The irrelevant entries (to the Australian fauna) are among many other survivors from that source (The genealogy of dictionaries, Robert Burchfield, in "Unlocking the English Language", Faber and Faber, 1989).
I have to say that I am not encouraged by this effort. Surely in the TWENTY years that have passed since Dr Norris wrote his review and was in communication with the Editor on these and many other points there must have been time to do some checking and make

the necessary corrections. "Dictionaries are like watches: the worst is better than none and the best cannot be expected to go quite true", said Samuel Johnson: the Macquarie Dictionary on this performance falls closer to the first class than the second. But at least this conclusion is more charitable than that of our colleague in 1983, who stated firmly "These books pose a serious threat to the standard of education in Australia".

Tom BELLAS
Weston, A.C.T.

AES Executive Meeting #410 28th February 2003

Proposals for the ICE 2004 Scientific Program will be finalised at a meeting on 20th March 2003.
Arrangements for the next AES Executive must be in place 90 days before ICE 2004 at the latest, but will be in place by the time of the Hobart meeting in 2003 to allow changeover period of a year. Negotiations are under way with NSW.
37 members have been suspended due to non-payment of subscriptions
Current subscriptions stand at 604 (Journal). Electronic *Myrmecia* is sent to 185 members.
A draft Privacy Policy has been prepared and will be turned into a discussion paper for the next AGM. It will be circulated to Council prior to the meeting. A discussion paper is also being prepared on AES awards.
Tender documents for the contract to publish *Australian Journal of Entomology* were opened at the meeting. The AES team to assess the tenders has been advised of the process and timetable.
Affiliated Societies to be canvassed about current system in an effort to encourage other societies to become affiliated with AES.

New members
The Executive approved the following applications for membership of the Society for 2003:
Mr **Michael Elliott**, Technical Officer, Australian Museum (proposed: G. Cassis, seconded: M. Moulds). Entomological Interests: Biology and taxonomy of the Australian Evaniidae, biology and taxonomy of the Australian Pompilidae. Michael has had five years' experience as a technical officer at the Australian Museum's Centre for Biodiversity and Conservation Research.
Dr **Yasmin J. Cardoza**, Wembley WA, (proposed: O. Edwards, seconded J. Scott). Post Doctoral Fellow, Aphid Biology
Dr **Jianhua Mo**, Yanco Agricultural Institute, NSW,
Mr **Pham Anh Tuan**, La Trobe University, Bundoora, Victoria (proposed: A. Hoffmann, seconded: L. Thomson). Master of Science
Dr **Andrew Hamilton**, Institute for Horticultural Development, Victoria (proposed: N. Endersby, seconded P. Ridland)

AES Extraordinary Executive Meeting, 30th March 2003

The meeting was called to ratify applications of membership. The Executive approved the following applications for membership of the Society for 2003:
Ms **Melissa Bell**, Bilpin NSW, PhD candidate researching the native blue-banded bee, *Amegilla* spp. (proposed: R. Spooner-Hart, seconded: W. Graham Thwaite)
Mr **Gary Cochrane**, Archerfield QLD (proposed: N. Endersby, seconded I. Endersby)
Dr **Sheena Cotter**, CSIRO Entomology, Private Bag 5, PO Wembley WA 6913, Postdoctoral fellow working on genetics of resistance in the *Helicoverpa*/ Chickpea interaction, research interest in trade offs in insect disease resistance (proposed; O. Edwards, seconded: J. Ridsdill-Smith)
Dr **Saul Cunningham**, CSIRO Entomology, GPO Box 1700, Canberra ACT 2601 (proposed: G. Farrell, seconded: K. Pullen)
Dr **Christine Lambkin**, CSIRO Entomology, GPO Box 1700, Canberra ACT 2601, Postdoctoral fellow (proposed: D. Yeates, seconded: L. Mound)
Mr **Lance Maddock**, Cannon Hill Brisbane QLD, postgraduate student UQ, interested in medical entomology, agricultural entomology and pest control issues (proposed: M. Schneider, seconded: G. Walter)
Mr **Austin McLennan**, Pittsworth QLD, QDPI (proposed: A. Hardy, seconded: B. Scholz)
Mr **Nathaniel Parker**, Toowoomba, QLD, QDPI (proposed: B. Scholz, seconded: A. Hardy)
Mr **Holger Löcker**, University of Sydney (Orange), Leeds Parade, Orange NSW 2800, Visiting scholar. Interests: Auchenorrhyncha, entomology, ecology, zoology, botany, agriculture and forestry (cultivation of plants, animal breeding), fruit culture, nature and environmental protection (proposed: M. Fletcher, seconded: G. Gurr)
Ms **Birgit Schürrer**, University of Sydney (Orange), Leeds Parade, Orange NSW 2800, PhD student: Revision on the Australian planthopper family Cixiidae (proposed: M. Fletcher, seconded: G. Gurr)

AES Executive Meeting #411, 9th May 2003

As directed by Council at the Outgoing Council Meeting (#63) held on 23rd September 2002 in Fremantle,

the core executive called for tenders for the Publishing Contract for Australian Journal of Entomology from 2004. Tenders for the Journal contract were called for in December 2002 and received by the end of February 2003. The process for assessing the tender documents was as follows: an assessment team consisting of the President of the Society, James Ridsdill-Smith (Chair), the immediate past President, Andy Austin, the Chief Editor of the Journal, Peter Allsopp and the members of the core executive was formed. Documents were opened on 28th February 2003, collated and arranged in format for parallel comparison and circulated to the team in the first week of March. Main members of the assessment team met in Brisbane to discuss the proposals. Recommendations from the team were made to the core executive by the end of March and candidates were advised of the outcome in May.

It is with pleasure that we announce that the contract for publication *of Australian Journal of Entomology* from 2004 has been awarded to Blackwell Publishing Asia Pty Ltd.

The Vice President reported that a major meeting of ICE 2004 executive and Scientific Program Committee was held in Brisbane on 20-Mar-03. Substantial progress was made and plenary speakers have been invited. IPPC meeting in China has been postponed due to the SARS outbreak. It will be important that the rescheduled date does not clash with ICE 2004. First manuscript entries for Phil Carne prize have been received. There have been other requests for entry forms and promotion continues.

135 members took advantage of the Super Early Bird registration for ICE. Nine members of the NZ Plant Protection Society also registered.

The auditor is applying for Income Tax exemption for AES for the next ten years

Membership is showing an attrition rate of ~10%. This is similar to previous years, but there is a need to recruit more strongly

A. Clarke has been appointed as Assistant Editor for *Australian Journal of Entomology*.

The executive is to work with Enterprise Care on issues of Corporate Governance of the AES. Initial priorities to be worked on are risk management, insurance, a review of the constitution and privacy policy.

The executive would like the AES to have stronger links with our affiliated Societies. The Vice President will write to each Society and attempt to initiate stronger links.

New members

The Executive approved the following applications for membership of the Society for 2003:

Dr **Craig Hull**, Dept of Zoology and Entomology, The University of Queensland, Brisbane QLD 4072, Research Associate. Craig's primary research interest is in the area of sensory physiology. He enjoys the challenge of using electrophysiological techniques to further understand how insect sensor systems operate and influence behaviour (Proposed: B. Cribb, seconded: G. Walter).

Dr **Louise Rossiter**, Australian Cotton Research Institute, Locked bag 1000, Narrabri NSW 2390, Research Entomologist, NSW Agriculture: Insecticide resistance by *Helicoverpa* spp.: monitoring and management. Interests: Biochemical and molecular mechanisms of insecticide resistance, cotton insect pest management, IPM and area wide management. (Proposed: M. Dillon, seconded: C. Tann).

Ms **Megan Leyson**, SARDI Entomology Unit, GPO Box 397, Adelaide SA 5001. Research Officer working on project "Integrated Snail Management in the Southern Region". Interests: biocontrol (horehound weed and horehound plume moth; conical snails (*Cochlicella acuta*) with the parasitic fly, *Sarcophaga penicillata*), extension work with the grains industry. (Proposed D.C. Hopkins, seconded G.J. Baker).

Dr **Kevin Powell**, DPI Rutherglen Research Institute, RMB 1145, Rutherglen VIC 3685. Senior Research Scientist: Management of Grapevine *Phylloxera* in SE Australia. Research Experience: Antimetabolic effects of plant proteins on homopteran insect pests, biological control of rice insect pests, host plant resistance, ecogeographical distribution of wild wheat germplasm. (Proposed: P. Ridland, seconded: V. Traicevski)

Ms **Jessica Page**, IPM Technologies P/L, PO Box 560 Hurstbridge VIC 3099. Interests: IPM (Proposed: P. Horne, seconded: J. Horne)

Dr **John Klingler**, CSIRO Entomology, Private bag No. 5, Wembley WA 6008. Postdoctoral fellow. Project: Conducting molecular-genetic analysis of resistance to *Acyrthosiphon kondoi* (bluegreen aphid) in the model legume, *Medicago truncatula* (barrel medic). Research Experience: identification of molecular markers linked to aphid resistance in melon, commenced mapping of aphid resistance locus in melon genome. (Proposed: Y. Cardoza, seconded: J. Matthiessen).

AES Notice of Motion

The Society is obliged to change the date of its financial year to comply with the Associations Incorporation Act. This means that the Constitution must be altered at the AGM in Hobart this year. The journal and subscriptions will remain on their current calen-

dar year basis. The Executive has taken the opportunity to review the whole of the Constitution and will recommend a number of changes mostly to do with new legislation or improvements in current practice. We have been assisted in this task by consultants from Executive Care Pty Ltd., a group that specialises in assisting Not for Profit organisations. A copy of the proposed changes and the reasons for making them will be distributed to you with the August issue of the *Australian Journal of Entomology*.

The Executive has also been involved in a number of other management and governance issues including the preparation of a risk management plan, a privacy policy, a review of the Awards and Honours that the Society bestows, changes to the By-laws (in addition to the Constitution changes noted above), and the preparation of a member recruitment strategy that includes assessing the benefits membership should offer. The long promised strategic plan has not been forgotten and you should expect a questionnaire seeking your views, probably with your 2004 subscription renewal advice in November.

Ian ENDERSBY
Treasurer

Ecological Society of Australia

Annual Conference, 8-10 December 2003

The Ecological Society of Australia will hold its 2003 Annual Conference at the University of New England, Armidale, New South Wales, Australia. The meeting will include symposia, an open forum of contributed papers and poster session, postgraduate course, social events and post-conference excursions. Submissions of abstracts for papers and posters are invited. Registration and abstracts should be submitted electronically via the Conference web page <http://www.ecolsoc.org.au/conferences.html> between June and 5th September 2003. Further conference information can be accessed at the web site.

International Society for Pest Information

The ISPI has issued a new version of their 'Pest Directory" database on cd-rom. This is likely to prove very useful to anyone needing to find an entomological contact in some other country, associated with a particular crop or pest or subject area. Easy to install and to use, it is available by e-mail (ispi@pestinfo.org), or through the Society webpage (http://www.pestinfo.org/http://www.pestinfo.org/pestdir.htm). The price is Euro 57.00, but a discount price of Euro 45.00 is available to scientists and professionals who have registered (or are willing to register) with the Society database (http://www.pestinfo.org/http://www.pestinfo.org/scientists.htm). For further information, try the above links or contact: **Bernhard Zelazny**, International Society for Pest Information (ISPI), Eulerweg 3, D-64347 Griesheim, Germany.

Book Reviews

Hemiptera: Heteroptera (Pentatomomorpha). Zoological Catalogue of Australia. Volume 27.3B. G. Cassis and G.F. Gross. CSIRO Publishing Australia, Melbourne. 2002. xiv 737 pp. $AUS 140.

This is one of two beautifully produced new volumes providing exhaustive treatments of two of Australia's most taxonomically diverse and impressive insect groups. The 'true bugs', included within the heteropteran infraorder Pentatomomorpha, are a major component of the Australian Hemiptera, and the Buprestoidea discussed below hold a conspicuous position within the popular appreciation of the Australian Coleoptera. Both groups currently comprise similar numbers of described species.

Gerry Cassis and Gordon Gross have constructed a massive and comprehensive overview of the Australian pentatomomorph bugs, the second work by the authors in the *Zoological Catalogue of Australia* series dealing with the Heteroptera. In this latest volume, however, the format has been modified such that superfamilies, and families within superfamilies, are listed alphabetically. This, I found, gives greater utility in accessing individual taxa. Gerry Cassis and Gordon Gross do not attempt to project a single vision of the higher classification of the Pentatomomorpha, rather Volume 27.3B commences with a consideration of alternative family-group classifications, those of recent alternative authors clearly tabled for comparison. The citation and discussion of previous taxonomic catalogues, bibliographies and checklists dealing with the pentatomomorph fauna provides an important gateway to the broader body of world literature on the infraorder.

Numbers of Pentatomorpha genera and species are tabled and the composition of the Australian fauna, including those of the territories of Lord Howe Island, Christmas Island, Cocos (Keeling) Islands and Norfolk Island, is discussed at length. The described Australian fauna is given at 1184 species, 442 genera, and 34 families, and a worldwide comparison indicates that the Australian fauna is particularly rich and diverse, though probably still far from exhaustively documented. The authors draw attention to the high level of endemicity at the species and generic ranks, with four endemic families (Henicocordidae, Hyocephalidae, Aphylidae, Lestoniidae), and several endemic tribes. Information on known distribution is

clearly documented for species, genera and higher taxa, and this will ease the task of entomologists, biogeographers and plant ecologists, not especially familiar with the Heteroptera, who wish to approach this taxon. Although the authors draw attention to the relatively poor understanding of biogeographic affinities, their discussion of the relationships of the fauna allows a biogeographic insight missing from some earlier issues of the *Zoological Catalogue* series.

Past volumes of the *Zoological Catalogue of Australia* have on occasion been criticised for their repetitious format that results in a long text. This view may have credence but as a worker interested in the group mainly for its plant associations I found the format a convenient one.

Taxonomic and nomenclature decisions made in this volume are listed as an appendix (Appendix III) towards the rear of the publication. However, I felt that the listing of abbreviations and symbols, and museum acronyms (Appendices I, II), might have been better served by placement within the introductory pages. But this is a small point of preference, hardly a criticism. A minor series criticism is the lack of clearer definitions for the vegetation descriptors cited on page 15, owing to the often synonymous use of terms such as 'closed scrub' and 'low closed forest', and their potential for dual application to 'rainforest' and non-rainforest vegetation formations. In the absence of a definition the likes of 'open scrub' can be perceived as meaning anything, and often do. A much more comprehensive list of ecological descriptors is given in the editorial preface of the earlier Heteroptera volume (27.3A, Coleorrhyncha to Cimicomorpha), and it is within the editorial preface of the two Heteroptera volumes that the definition reference (Specht 1970) is hidden. Provision of an additional appendix that defined the structure and floristics of the habitat terms listed would have been a useful aid for those readers not blessed with a firm understanding of the vegetation community parameters. It is well to remember that individual volumes of the series will find their way to foreign libraries, further making the case for a clear and unambiguous definition of vegetation and habitat terms.

The scope of illustrations provided well serves the purpose of representation, and continues the format of black and white line drawings. Individual illustrations of representative taxa are impressive, not least of all those crafted by Sybil Monteith and Hannah Findlay. I have no understanding of the depth of contributions made by other workers and assistants to the production of this body of work. Yet in an age where contributions increasingly fail to be acknowledged the authors appear to have gone to great length to cite all those that contributed in one form or another.

The treatment of host associations breaks any perception of this volume as a purely entomological one, and establishes its usefulness to plant geographers, ecologists and botanists alike. Although the authors state that an adequate review of the biology of the Australian fauna is beyond the scope of their volume, they provide an introduction which exceeds that given for invertebrate taxa in a number of other volumes of the series. Known associations between individual plant and pentatomomorph families are summarised in a series of tables (Tables 5-8), and these records are discussed. There is an impressive listing of animal and plant host associations at the species level (in Appendix IV), which I suspect will act as a catalyst for further investigation of host relationships within the infraorder.

This substantial volume represents an indispensable reference work for anyone concerned with the taxonomy and systematics of Australian Hemiptera, and invertebrate biology, biogeography and insect-plant relationships more generally.

Coleoptera: Buprestoidea. Zoological Catalogue of Australia. Volume 29.5. C.L. Bellamy, CSIRO Publishing Australia, Melbourne. 2002. xii 492 pp. + 4 colour plates. $AUS 140.

A broad appreciation of the Australian members of the superfamily Buprestoidea, commonly known as 'jewel beetles' is clouded by the large number of synonyms, the wealth of new species described and higher taxa applied since H.J. Carter's 1929 checklist, and the number of unpublished 'cabinet' names that confuse the current state of the speciose genus *Melobasis*. A definitive modern catalogue of the Australian fauna is long overdue. Charles Bellamy's volume fills this role admirably and is a required addition to the libraries of all Coleopterists. However, the author stresses that the taxonomic histories of several Australian buprestid genera have been so 'tortuous' that a number of the *Catalogue* listings are likely to change whenever future revisions are completed.

Those Coleopterists raised on a diet of flower-frequenting Buprestidae will note that this volume highlights the great diversity of Australian species and genera not associated with flowers. Many of these beetles are minute denizens of rainforest, saltmarsh and the semi arid zones, their often fortuitous collection demanding long hours of beating foliage or rearing from timber billets.

The Buprestoidea volume departs from the black and white line drawings normally used in the series to characterise individual higher taxa. Here, depiction is achieved by 4 colour plates featuring 26 superb

illustrations by André Olwage. These are best appreciated in full or bright light. The Introduction outlines the evolution of the higher classification of the superfamily and draws attention to those genera most in need of revision. There is a table summarising the higher taxonomic ranks that contain Australian species, a review of publications dealing with local distribution, buprestid fossils, biology and immature stages, and a discussion of the extracontinental relationships of the Australian fauna. The development of subfamily, tribe and subtribe classifications is discussed, the discussion clearly indicating that the status of several higher rankings remains in a state of flux and contention. Conveniently, references are listed at the end of each suprageneric category. As in Volume 27.3B (Pentatomomorpha) reviewed above abbreviations, symbols and museum acronyms used in the text are given in appendices at the rear of the volume.

This volume continues the established series format of briefly indicating the distribution of species, genera and higher taxa, and citing known ecological data with each species. The author has been meticulous in including the publications of co-workers and colleagues. Considerable detail is given in the listing of host data, but indications of habitat associations are not generally mentioned; though these are known for many species. In some cases habitat associations can be inferred, with caution, from the host plant records cited for individual buprestid taxa.

There are some changes in nomenclature made in the Buprestoidea catalogue, and these will require a review of labelled institutional holdings and databases. As examples, the genera *Curis* and *Alcinous*, respectively become *Selagis* and *Aaaba*. Volume 29.5 also gives highlight to generic changes not yet generally surfacing in the named series held by modern collections (e.g., species now in *Chalcophorotaenia, Ethonion, Calotemognatha,* and *Temognatha*). Known records of introduced foreign species (e.g., *Cypriacus aurulenta*) are also included in the treatment of the Buprestoidea. This volume is also important in bringing to a greater awareness the modern published contributions of, for example, Curletti (on Australian *Agrilus*), Volkovitsh and Hawkeswood (immature life stages, host associations), Holynski, Cobos, Bílý and Kolibaæ (higher classification), Barker (on *Astraeus, Castiarina* and *Cisseis*), the late Gordon and Joy Burns (regional databases), Peterson (taxonomy and biology generally) and, not least of all, the prodigious writings of Charles Bellamy himself. Important titles by some of these workers have appeared in foreign journals not readily accessible or known and, as a consequence, may have been overlooked by Australian Coleopterists.

Bellamy remarks that many synonymies remain to be explored and that the listing and validity of some names, such as those placed in the Anilarina, may be doubtful but are beyond the scope of this volume to confront. The status of many names within *Anilara*,and *Melobasis,* may plague buprestid workers for years to come.

Irrespective of the confusion overshadowing the status of some of the names applied to the Australian buprestid fauna, this quintessential volume provides a sound foundation from which future interpretation and revision can proceed.

The editors forewarn the pending end to hard copies of the *Zoological Catalogue of Australia* series. There are benefits to electronic copies, but there is also a practical utility in continuing hard-copy issues. The practical constraints to downloading and printing out such large works are not to be belittled, and the accessibility of computer generated copies is dependent upon electricity and appropriate hardware and software. Taxonomists and systematists are inclined to thumb back and forth through volumes of the *Zoological Catalogue* at all hours, and often for the briefest, yet critical, of moments. Volumes 27.3B and 29.5 are impressively produced works that stand as fine examples of the printed and bound word, against which, I am sure, electronic-only volumes will be found wanting.

References

Carter, H.J. 1929. A checklist of the Australian Buprestidae. With tables and keys to subfamilies, tribes and genera (by A. Thery). *Australian Zoologist* 5, 265-304.

Specht, R.L. 1970. Vegetation. Pp. 44-67. *In* Leeper, G.W. (ed.) *The Australian Environment.* 4th edn Melbourne : CSIRO-Melbourne Univ. Press.

Geoff WILLIAMS,
Research Associate, Australian Museum,
Sydney. NSW 2000 Australia.

REGIONAL NEWS

NEW SOUTH WALES

CERIT UNSW

The first half of 2003 has proved to be a busy time for us here at CERIT. The administration of CERIT (along with a number of other commercial labs) was transferred from Unisearch back to the University of New South Wales from 1 January this year. However the move has been mostly transparent to our clients and contacts. We welcome **Chris Virgona** from Starpharma back into the CERIT fold. Starpharma has entered into a collaborative agreement with CERIT to support Chris's new research project.

As I write this, we are gearing up for our major industry symposium for 2003, to be held on Thursday 2 October on Timber Pest Management and Training. Once again we will be using the excellent facilities at the Biomed Theatres, UNSW. If you are interested in attending and have not received an information package by mid September, please contact CERIT (02 9385 0344) and we will send one out to you.

Chris Orton has continued his involvement with Property Services Australia (PSA) and particularly with the Property Services Industry Training Advisory Body NSW (PSITAB NSW) - Pest Management Industry Sector Committee. PSA has been given the responsibility of co-ordinating the revision of National Competency Standards in pest management on behalf of the Federal Government. PSITAB NSW's role is to advise government on the training needs of industries within the property services sector - which includes the pest management industry. Chris Orton is a member of the NSW Pest Management Sector Committee which meets formally each quarter and in sub-committee as required. The present focus of the ITAB is on raising the level of training of Pest Managers - for both new entrants and existing pest managers. This fits well with CERIT's involvement in managing the quality of Continuing Professional Development for the pest management industry.

Chris delivered a guest lecture to UNSW final year Food Science students in May, attended the AEPMA 'AS3660 Temite Management' Seminar also in May and the AEPMA National Conference in Perth, 8 to 12 July.

Visitors to CERIT this year have included: Roger Sargent and Andrew Smith,Schering-Plough Australia; Peter Still, Bayer Australia Ltd; John Thorpe and Anne-Marie Poirrier, Osmose Australia; and Laura Lollback, S.C. Johnson Australia, who brought with her James Yonker; Research Associate, Worldwide Consumer Products - Insect Control and Daniel Ropiak; Worldwide Scientist Insect Control from S.C. Johnson USA.

CERIT has been exercising its more artistic side with a visit from Susan Norrie, an artist exhibiting at the Museum of Contemporary Art in July. Susan used some of CERIT's facilities to film a piece on insects and science. If you managed to catch the exhibition, did you spot the CERIT person captured on film?

On a more personal note, we were happy to catch up with ex-staffers Sarah Lunau and Julie-ann Short who visited CERIT in May. Chris Virgona caught up with some of his children while visiting Europe and managed a fortnight in Venice last April/May. Merilyn Baker is visiting family in Hong Kong this month after postponing a visit that was originally planned for April (amid the height of the SARS scare).

Merilyn BAKER

University of Wollongong, Dept of Biological Sciences

James Wallman (previously at the University of Adelaide) has now held his lectureship at Wollongong for two years. In this time he has established a thriving group devoted to research in forensic entomology and dipteran systematics and biology, as well as teaching in invertebrate zoology. His students are currently researching a range of projects in the applied biology of insects. The group (in collaboration with **Mark Dowton**, also at Wollongong) has just had their work on the forensic application of blowfly DNA and behaviour funded by the ARC for the next three years.

On 3-4 July James attended the inaugural Meeting of Australian and New Zealand Forensic Entomologists in Melbourne, at which he spoke about the challenges inherent in the taxonomic identification of forensic entomological specimens.

Kris French's lab has been busy, with two PhD students, **Elizabeth Lindsay** and **Holly Parsons**, both investigating arthropod communities in two very different environments. Elizabeth has been looking at the effect of invasion by the weed *Chrysanthemoides monilifera* ssp. *rotundata* on coastal leaf litter invertebrates. She has discovered that different assemblages exist in weed areas in comparison to native areas. The changes are due to different micro-environmental factors and alterations in the leaf litter quality and quantity. She will be looking at the implications of these changes on nutrient cycling and decomposition. Holly is examining the arthropod communities of a range of native, hybrid native and introduced shrubs in both suburban gardens and natural areas. By looking at both composition and size

classes of the invertebrates she hopes to explore the food resource availability for small native birds in an urban environment.

Alan CLIFT

NORTHERN TERRITORY

CSIRO Sustainable Ecosystems, Darwin.

Alan Andersen was kept busy with media committments during May, after a media release on ant common names. Alan also participated in the Kakadu Seasonal Ranger training program in late May, presenting talks on invertebrate biodiversity and fire ecology and management. Alan also attended the first of the Charles Darwin Symposium Series for 2003. The series of symposia aims to provide a forum to discuss the issues, reflect on past success and failures, and identify future opportunities and threats for the NT. The first symposium was entitled "Making good policy: Issues for North Australia in the 21st Century". Presently Alan is in South Africa where he is establishing an ant monitoring programme at Kruger National Park. Part of this will involve training a young African researcher who will be responsible for ongoing ant monitoring. Alan will also be collaborating with researchers from the University of Potchefstroom on a rainge of ant monitoring programmes. **Tracy Dawes-Gromadzki** will also be travelling to South Africa at the end of July, with Alan and Tracy developing collaborative links with fellow savanna researchers, particularly from the University of Cape Town.

Tracy Dawes-Gromadzki recently presented a spoken paper titled "Plot-to-patch Bio-hydrologic processes' at the World Congress of the International Association for Landscape Ecology, held in Darwin during July. Tracy has also been busy processing termite samples from a collaborative project she is involved in, with colleagues from the Uni of Queensland and ANU. This work involves the investigation of nitrogen cycling along a rainfall gradient from Darwin to Alice Springs. Her colleagues are interested in the relative importance of different forms of nitrogen (e.g. nitrate and ammonium) for eucalypts, acacias, grasses and proteaceous plants. Tracy is collaborating with them through examination of the functional roles of soil macro-invertebrates in the nitrogen cycle, and particularly the roles of termites in nitrogen fixation. Through taking on two high school students as part of the CSIRO Student Research Scheme (run through the CSIRO Education Centre), Tracy has also completed a survey of the termite fauna of Holmes Jungle and Charles Darwin National Parks. Tracy was also kept busy for a couple of days in June by a German TV Crew who travelled to Australia to film the spectacular cathedral and magnetic termite mounds as well as a typical day in the life of an invertebrate ecologist!

Department of Business, Industry, Resource and Development (formerly DPIF) Entomology Section

Several members of the section have been travelling recently. **Graham Brown** attended a Quarantine Entomologist's meeting in Brisbane in April, followed by a mite identification course, and for the past few weeks he has been in Canberra working on a biolink taxa table for AQIS.

Deanna Chin visited **David Astridge** in South Johnstone in June. During the visit they worked on a poster on the identification and monitoring of rambutan pests and a workshop manual as part of a joint RIRDC project on Rambutan IPM for Queensland and Northern Territory growers. David also showed her around the local rambutan orchards. She also called in briefly to see **Peter Leach** at QDPI Cairns to view the fruit fly disinfestation and post harvest facilities.

Megan Connolly and **Alison Jacks** (NT Quarantine) attended a National Women in Horticulture Training meeting in Tasmania in May and have since passed on their findings through workshops and field visits in Katherine.

Brian Thistleton and **Michael Neal** have continued their work on control of *Mastotermes darwiniensis* with trials in both Darwin and Katherine. While visiting Katherine, Brian has also held discussions with the department's new cotton entomologist, **Ali-Nur Duale**, who moved there from Emerald in May.

In May the section put on a display at the rural show at Fred's Pass which was manned by **Brian Thistleton**, **Bruce Dilley** and **Deanna Chin**. **Haidee Brown** and **Heather Wallace** have continued to work on the Economic Insect Collection and have been entering specimen data to the Australian Plant Pest Database, and **Lanni Zhang** has been carrying out identifications for AQIS and NT quarantine.

Tracy DAWES-GROMADZKI
NT Regional Councillor

QUEENSLAND – NORTH

AQIS Mareeba

Judy Grimshaw has been kept busy by the start of the "survey season" for NAQS Queensland. This has included a survey of fruit farms and home gardens in the Daintree/ Cape Tribulation area and a survey of several islands in the Torres Strait. Planning is well underway for a survey to settlements and other sites

Keith Halfpapp attaching a bait to a Navelina tree

near the tip of Cape York Peninsula and a visit to several communities in the Western province of Papua New Guinea. In between these activities Judy also presented a talk to sugarcane workers at the "Sugarcane Technologists" meeting in Townsville (May) and provided much information to support a survey by a BSES entomologist **Peter Samson** and plant pathologist **Rob Mageary** who examined sugarcane growing in the Torres Straits and Cape York Peninsula communities.

Kerrie Huxham spent one week in June surveying the Weipa and Aurukun area with botanist **Barbara Waterhouse** and Plant Pathologist **Vanessa Brake**. No new incursions were found. Spiraling whitefly and both mango leaf hoppers (*Idioscopus nitidulus* & *I.clypealis*) were confirmed, though no leaf hoppers were found at Old Mapoon, north of Weipa. The leucaena psyllid, *Heteropsyllid cubana* was abundant on the roadside pest leucaena.

In May **Geoff Monteith** (Qld Museum) and **Mark Ero** (NARI, Port Moresby) visited the AQIS collection for a couple of days to examine *Oribius* (Curculionidae) specimens.

DPI Mareeba

Dave Rentz, now a resident of the Kuranda district visited **Ross Storey** at Mareeba DPI. They talked at length about entomologists and insects. Dave plans to continue his work on Australian orthopteroids and has a book covering all Australian grasshopper genera due out in the near future.

German entomologists **Sven Kowalski** and **Ralf Schulthanis** have spent several weeks based in the Atherton area studying the carabid beetle *Trichotichnus storeyi*. The species feeds on the fruit of figs, somewhat unusual for the predominantly predacious carabids.

Harry Fay, **Keith Halfpapp** and **Stef De Faveri** have just completed another season's field trials evaluating a baiting (or 'attract and kill') technique for fruit-piercing moths in tree fruits. In contrast to the 2002 season, when the drought took its toll on moth populations (much to the delight of growers), 2003 has again shown that this pest can be a real problem for early citrus crops. Increasing proportions of baits were attacked as moth numbers increased, and generally the proportions of damaged citrus fruit were substantially reduced. However, because the baits only remove a proportion of the moths in an orchard on any

night, isolation of the orchard from breeding sites and other orchards are critical to the success of the technique. Future trials will look at the timing of bait deployment, the distribution of baits across an orchard and the numbers of baits required relative to moth activity.

DPI Cairns

Jane Royer & Mark Stanaway conducted a plant pest survey of the Cape York Peninsula Gulf area in June. This covered Kowanyama, Pormpuraaw, Karumba and other sites along the way. Spiraling whitefly (*Aleurodicus dispersus*) is doing a good job of joining the dots on the Cape and was found to be thriving at Kowanyama. It has not previously been detected at this community. The parasitic *Encarsia* wasp will be sent to Kowanyama for release.

NR&M Tropical Weeds Research Centre

Catherine Lockett reports that the first field release in Queensland of a new biological control agent, *Agonosoma trilineatum,* was recently made into an infestation of bellyache bush, *Jatropha gossypiifolia,* on a property near Charters Towers by staff from the Tropical Weeds Research Centre. The sucking bug which originates from South America, feeds on the fruits of the weed and is the first biological control agent approved for field release following the completion of host testing at CSIRO's Brisbane laboratories. Rearing of the insect in Charters Towers commenced in March this year. Work on this weed is part of a collaborative project between the CRC for Australian Weeds Management, Queensland Department of Natural Resources and Mines and Northern Territory Department of Infrastructure, Planning and Environment. Bellyache bush was introduced to Australia as an ornamental in the late 1800's and has spread widely, becoming a serious weed of northern Australia. It invades rangelands, particularly riparian zones, forming dense thickets that out compete more useful species, reducing productivity and hindering mustering. All parts of the plant are highly toxic and stock losses in Dalrymple Shire have been attributed to it.

Canopy Crane Research Facility, Daintree

Brad Howlett is currently completing work on the reproduction and pollination of the vulnerable palm species *Normanbya normanbyi* and will be presenting results at the upcoming Australian Entomological Society in Hobart. Sarah Boulter (Griffith University) will be visiting the Canopy Crane Research Facility at the end of July to continue research with Brad Howlett on the pollination of two Syzygium species located within the crane radius. Nigel Stork's study on the diversity of canopy and ground beetles being conducted at the research facility has entered its third year, promising to yield interesting results on the spatial and temporal distribution of beetles in a lowland tropical rainforest.

BSES, Meringa

Mohamed Sallam happily reports that a project on the world population of *Cotesia flavipes* (Hymenoptera: Braconidae) has been approved by the Australian Research Council. Stalk borers, moth borers, stemborers are all different names for a group of nasty pests that attack gramineous plants all over the world except Australia and Fiji, and we want it to remain this way. The introduction of any of these pests to Australia may heavily impact on the sugar or grain industry. At BSES they have compiled a list of all the natural enemies of these pests in overseas countries. On top of that list, *Cotesia flavipes* stands out as a strong candidate for introduction into Australia in case of incursion of many borer species. Australia may have a species similar to *C. flavipes* found overseas. Recently the ARC accepted to fund a three year project to look at the DNA finger print of a number of *C. flavipes* populations from a number of overseas countries and to compare this to the population we have in Australia. This will help us decide on the best population to introduce into Australia in case of a pest incursion, and will resolve a lot of question marks regarding the geographical distribution of the different populations of that important parasitic wasp. The work will be conducted in the University of Adelaide as a PhD project, with BSES as the industry partner - through a link with the university.

BSES, Mackay

Peter Samson and **Lastus Kuniata** (Ramu, PNG) participated in a survey of sugarcane pests and diseases in Torres Strait and Cape York Peninsula in June, as part of an ACIAR-funded project. Sugarcane was found on all the islands visited and also at several Peninsula communities. At this stage there seem to be no new pest records. Signs of possible moth borer damage were observed on Mabuiag and Dauan Islands although the culprits could not be found. Following a previous survey of sugarcane across northern Australia last year, positive identifications were recently received from **John Donaldson** QDPI of the scale insects *Aspidiella sacchari* in the Northern Territory and Western Australia and *Odonaspis saccharicaulis* in the Northern Territory, these being new records for Australia.

James Cook University

Jelle van Zweden is visiting from Amsterdam for six months to work with **Ross Crozier** and **Simon Robson**. He will be studying the colony structure of a species of arboreal ant that possesses dimorphic queens. Simon will be on sabbatical for the second half of this year, working with **Ted Schultz** at the Smithsonian and **Barbara Thorne** at the University of Maryland.

Richard Rowe recently completed the 400th issue of the 'Bugs weekly' column for the Townsville Bulletin. This column, originally started by Richard and Phil Weinstein, has run weekly for the past nine years. The column is now aestivating while Richard is on a four month Special Studies Program involving visits to Rwanda and Tanzania for data collection and to Britain and Sweden to catch up with dragonfly biologists and to compare ideas.

Jane ROYER
Kerrie HUXHAM

QUEENSLAND – SOUTH

Army Malaria Institute (AMI).

In early May, **Bob Cooper** and **Steve Frances** attended the 2nd Environmental and Occupational Health Symposium of the Department of Defence Health Service Branch, and Steve presented a paper on personal protection against mosquitoes. AMI also hosted a workshop on Vector Control and Surveillance for the conference delegates.

Bob Cooper attended the Asia Pacific Military Medicine conference in Bangkok, Thailand in mid May, and presented a paper on a joint project with the Vietnamese Army. Bob then proceeded to Hanoi, Vietnam, and spent 3 weeks working in the laboratory with our Vietnamese collaborators. In July 2003, 3 Vietnamese officers will visit AMI for a month to continue various projects.

Cassie Jansen is continuing laboratory work evaluating insecticide resistance patterns in *Aedes aegypti* from northern Queensland, and has been assisted by **Rae Huggins**. **Sarah Russell**, an entomologist at AQIS Brisbane, has joined the Army Reserve and is assigned to AMI where she will be involved in several projects within the entomology section.

In mid May, Colonel **Raj Gupta** of the US Army visited to discuss future collaborations with the US Army Medical Research and Material Command in Washington.

Steve FRANCES

AQIS

Vessel inspections

Since our last report, **Bill Crowe** and **Sarah Russell** have conducted an Asian Gypsy Moth (*Lymantria dispar*) inspection of a vessel from Vladivostok. The survey involved 8 quarantine officers in order to complete the inspection in daylight hours. No AGM were detected.

Cryptotermes domesticus was identified from a wooden artifact imported from Fiji. This is an introduced drywood species that only occurs in North Queensland.

Formosan termite (*Coptotermes formosanaus*) was detected in a yacht from Hong Kong. The termites were detected during a pre-treatment (mandatory) inspection. **Sarah Russell**, **Catherine Harvey** and a work experience student collected further samples (dead of course) from the yacht after fumigation and gas freedom had been declared. Some of these have been sent to Bob Eldridge (NSW Forestry) for confirmation.

An interesting auger beetle turned up during the identification process of routine interceptions. **Bill Crowe** had the dubious honour of identifying his first *Dinoderopsis serriger* (Bostrichidae: Dinoderinae) from wooden artefacts out of South Africa. This is one fancy looking bostrichid!

A consignment of wooden crated equipment from Columbia referred to AQIS by the Customs container X-ray facility at Fisherman Islands turned-up some very interesting exotic auger beetles. *Dysides obscurans*, *Tetrapriocera longicornis* and *Dinoderus bifoveolatus* were detected in the crating. *Dysides* and *Tetrapriocera* are unusual and distinctive bostrichids and will serve to enhance the rapidly growing auger beetle reference drawers of hotel "Brisentomologia".

Lesser auger beetle (*Heterobostrychus aequalis*) was intercepted in some Chinese roman blinds by a member of the public. A recall was initiated and most of the products were returned and re-fumigated. *H. aequalis* was also intercepted from Indian shipping crates at one of the Brisbane break bulk depots.

Still on exotic auger beetles, *Sinoxylon conigerum* was intercepted from airfreight crates from Singapore. Another barrier breach was unearthed at the Warehouse by a vigilant Brisbane airport officer whilst doing some weekend shopping. Frass and holes were observed in the wooden handles of some F-clamps from China. A surveillance officer retrieved the infested items and ordered the remaining stock into quarantine for treatment. One obviously infested clamp was imprisoned in the Brisbane quarantine insectary and shortly afterwards produced a longicorn beetle, which

has been tentatively identified as *Chlorophorus signaticollis*. The clamps have been recalled for treatment.

Earth bumble bee (*Bombus terrestris*) was collected on the wing by an AQIS officer on Fisherman Islands. *B. terrestris* is widely distributed around the world including New Zealand and Tasmania but has not been officially recorded from the Australian mainland. It is recognised by its large size (queens approx. 20mm in length) and very hairy yellow and black body. Bumble bees are considered an environmental pest as they compete with native fauna and increase the seed set of weeds as a result of their pollination activity. DPI have been notified so that they can carry out trapping programs to gauge the extent of the breach. AQIS inspection staff at Fisherman Islands are also on the lookout for the hairy beasts. The incident has also been given media coverage on network news channels and newspaper articles, raising public awareness and increasing phone enquiries from the public.

http://www.tmag.tas.gov.au/bumblebees/inside.pdf
http://www.mearns.org.uk/mrssmith/bees/terr.htm

Warehouse beetle (*Trogoderma variabile*) was intercepted in the dry stores of an oil tanker docked in Brisbane. This species is now widely distributed in Australia, but has yet to be officially recorded from Queensland. A weird, *Trogoderma*-like larva was also submitted for identification. It was intercepted in mail from New Zealand handicrafts. It appears to be a species of *Anthrenocerus* but further investigation is needed once the slide has cured a little.

Sarah RUSSELL

Bayer-AG

After 25 years in the field of entomology **Richard (Dick) Bull** has retired following the recent acquisition of Aventis CropScience by Bayer-AG. Richard started his Australian career in 1966 with BSES Mackay and then onto BSES Bundaberg. He then joined Rhone-Poulenc Rural (became Aventis CropScience in 2000) in 1986 as their senior research scientist. Richard's main area of research was scarabs, nematodes and diptera. He was instrumental in gaining registrations for ethoprophos and aldicarb for the Australian sugarcane industry to control scarab larvae and nematodes. Richard together with **Dick Drew** and Griffith fruit fly team developed fipronil for controlling fruit flies. This team successfully managed fruit fly pests on the pacific islands – Nauru and Palau. Richard and his wife Betty plan to fish the entire coastline of Australia as well as adding to their Coleoptera collection. All will miss Richard's vision and enthusiasm.

Chris THEMSEN

Natural Resources and Mines

Peter Mackey has joined pest management research at Alan Fletcher Research Station as Acting Principal Scientist after **Rachel McFadyen** left to become CEO of the CRC for Weed Management. Peter arrived just in time to contribute to the management of the fiddlewood problem, which is also heavily involving **Mike Day**, **Liz Snow** and **Bill Palmer**. Bill has been busy with a $0.5m upgrade of the quarantine facility at Alan Fletcher Research Station. Several major changes are being made to improve the security and working conditions of the facility. Construction has started but is being undertaken against the backdrop of possible new guidelines being developed by AQIS for registration of quarantine facilities.

Bill, Alan Tomley, Dhileepan and **Mike Day** all attended the IX International Symposium on Biological Control of Weeds held in Canberra in April. The symposium was a great success though a pervading feeling at the symposium that ever increasing regulation will make it increasingly difficult and time consuming to get biocontrol agents approved for release.

Bill PALMER

School of Life Sciences, University of Queensland

Gimme Walter has published a thought-provoking book titled "Integrated Pest Management and Ecological Research". Congratulations to **Jacinta Hodnett** and **Lindsay Popple** who successfully completed honours. Jacinta's project was on the species status of mirids, *Creontiades* spp., whilst Lindsay worked on species specificity in cicada calling songs. Lindsay will be recording more cicada songs as he starts a PhD with Gimme in August. Earlier in the year, **Mary Finlay-Doney** started a PhD with Gimme. She will be developing improved mass-rearing techniques for *Crytolaemus montrouzieri*, in collaboration with **Dan Papacek** from Bugs for Bugs and **Dan Smith** from Maroochy QDPI centre.

The mighty mite man, **Dave Walter** departed Australia to join his partner **Heather Proctor** at the University of Alberta, Canada. Meanwhile, mite lab members **Jenny Beard**, **Fred Beaulieu** and **Matthew Shaw** continue the search for mites in obscure places of the planet.

We welcome **Hugh Dingle** from California. Hugh, who has officially "retired" from UC Davis, has moved to Australia and will be working closely with **Myron Zalucki** and others. **Sarina Pearce** submitted her PhD thesis on the use of naturally occurring predators for control of *Helicoverpa* spp. in grain crops, and is currently on holidays in Asia. Sarina plans to take up a postdoc at UQ on spiders in remnant vegetation when she returns in the New Year. **Mike Fur-**

long and **Myron Zalucki** commenced a new look ACIAR project on brassica IPM in North Korea. Mike and Myron will travel to North Korea in August as part of this project. **Paul Cunningham** has completed a three-year CRDC funded project on adult *Helicoverpa* spp. behaviour, and has been awarded a UQ research development grant to continue this research in collaboration with others at UQ. Meanwhile, **Andrew Davies** has returned to Kununurra for two weeks to finalise field work on *Trichogramma* in cotton as part of his PhD (and no doubt some barramundi fishing). **Mark Wade** plans to finish his PhD in the next five months before moving to Christchurch to join Steve Wratten at Lincoln University on a three year postdoc on conservation biological control of Argentine stem weevil, *Listronotus bonariensis*.

Marie-Louise Johnson (DPI), **Mark Wade** and **Brenton Peters** presented findings from their work on *Helicoverpa* larval behaviour, damsel bugs, *Nabis kinbergii*, and termites respectively, at the recent Queensland Entomological Society notes and exhibits meeting. **Myron Zalucki**, **Sarina Pearce**, **Leeane Heslin**, **Mark Wade**, **Ian Newton**, **Leon Scott, Kirsten Scott** and **Nicole Lawrence** travelled to Toowoomba to attend the annual DPI Farming Systems IPM Forum on the latest developments in IPM. At the forum, Mark presented work on damsel bug abundance, Ian spoke about his Ascovirus work and Nicole on molecular identification techniques for detecting parasitism of *Helicoverpa* eggs by *Trichogramma*. **David Merritt**, **Glenn Graham**, **Corinna Lange**, **Darren Wong** and **Karen Bell** attended the recent genetics conference in Melbourne. The Entomology teaching program continues to expand enrolments of students in coursework Graduate Certificate, Graduate Diploma and Masters degrees. Twenty students are enrolled for Semester 2 and an additional four Master of Plant Protection students are taking entomology courses. Congratulations to June graduates **Adriana Najar** from Columbia and **Yasir Al Obaidoon** from Oman who completed their Master of Entomology degrees, and to **Ari Kristini** from Indonesia who completed her Master of Plant Protection. Adriana will commence a PhD with Gimme Walter in Semester 2. The undergraduate Flexible Teaching and Learning Program also continues to attract both internal UQ students and some cross institutional undergraduates. We encourage staff in other universities to make interested students aware of the availability of UQ entomology courses that can be credited to their degrees without having to attend UQ. For more information contact **Margaret Schneider** at M.Schneider@uq.edu.au **Greg Daniels** is currently employed three days per week in the UQ Insect Collection. Funding from the PHA and AFFA Australian Plant Pest Database Program has Greg spending most of his time databasing and improving the curation of targeted pest groups. **Michelle Larsen** has been ably assisting Greg with this project. Greg also spends time upgrading the UQIC web catalogue (http://www.uq.edu.au/entomology/museum/uqinsect.html) and has started adding images for taxa, *e.g.* see Lepidoptera, Saturniidae. **Kendle Wilkinson** finished her postdoc with the **Centre for Information and Diagnostics** and has taken up a new position elsewhere in the school. Finally, interviews have been held for two new Entomology lecturer positions and the outcome will be known soon (watch this space).

Mark WADE
Myron ZALUCKI

SOUTH AUSTRALIA

A letter from **Africa** that shows how important our articles can be for ex pats from afar:

Dear Glenys,

I have just received my copy of Myrmecia for February 2003 (mail does not rush across the Indian Ocean) and have read your report from SA. Sorry to read about the passing of **Dave Morgan** (ex Waite Entomology). I was his lab. assistant in 1963/4 then did a Masters in Forest Entomology under him at the Waite in 1965-68. I left the Waite in 1971 (for Flinders) and then left Oz in 1973 (for Zambia) never to return! If it is possible, could you forward my condolences (however late) to Betty Morgan? I haven't seen them all for decades but they used to be a nice and friendly family - helpful to post-grad students - and I have tried to carry on that tradition wherever I work. I still have post-grad students (at Makerere in Uganda and at Nairobi) and often think of those days at the Ento Dept when I earned my spurs by arguing with Andy and Tom Browning and Derek Maelzer and Tom White - and Dave Morgan. And, of course, Peter Miles – whom I followed to Zambia in 1973.Geoffrey HOWARD IUCN Eastern Africa, Nairobi

South Australian Research and Development Institute (SARDI)

Mark Hoddle (from UC Riverside) and **Laurence Mound** (CSIRO) visited **Sheridan Purvis**, **Greg Baker**, **Mike Keller** and **Darryl Jackman** in Loxton to discuss thrips management in citrus and avocado orchards.

Greg Baker joined quarantine entomologists **Bill Crowe, Sarah Russell, Catherine Harvey, Ross Rickard, Luke Halling, Kate Sparks, Mike Grimm,**

Tony Postle and **Graham Brown** in Brisbane for a 4-day pressure-cooker introduction to the Identification of Mesostigmatic Mites presented by UQ acarologists **Dave Walter, Jenny Beard, Fred Beaulieu** and **Matthew Shaw.**

Dr. Letitia Silberbauer has visited **Nancy Schellhorn** and **Glenys Wood** who are working on the 'Native Vegetation by Design' project in SARDI to share her considerable experience with using insect-borne pollen to assess insect movement at the landscape scale. Tish is a Research Fellow, University of New England (Armidale, NSW), and is currently winding up a project assessing ecosystem services (including natural pest control) at the farm and catchment scale.**Peter James** and **Chris Krawec** continue their expeditions into the less aesthetic regions of poultry sheds. *Fannia canniculariS* is the major fly species causing problems at all sites under study but population patterns have been very different at different locations. Significant levels of the cool season larval parasitoid *Tachinaephagus zealandicus* have been found.

Dennis Hopkins presented a paper entitled "Eradication of small outbreaks of medfly in South Australia using the sterile insect technique" at the Third Research Co-ordination Meeting of the Co-ordinated IAEA Research Project on "Quality assurance of mass produced and released fruit flies for SIT programmes" in Perth in May. **Vanessa Bosco** who is working in the fruit fly team with **Cathy Smallridge** and Dennis also attended this meeting.

Australian Water Quality Centre

Staff at the AWQC Aquatic Ecology and Biomonitoring Unit continue to collect and process aquatic macro invertebrate samples from many parts of the state for a range of projects and customers. **Chris Madden** and Darren Hicks have been carrying on the project to control midges emerging form the Bolivar Wastewater Treatment Plant stabilisation lagoons, which are causing a nuisance to nearby residents. Darren has been introducing fish and shrimps to act as biological control agents, while Chris has been sampling midges and providing advice on the other short-term control measures. We think we have a strategy in place to reduce the nuisance next summer but this remains to be tested!

The Sustainable Rivers Audit Pilot Project, funded by the Murray-Darling Basin Commission, involved the sampling of 40sites from Tailem Bend to above Lock 8 in our part of the Murray-Darling Basin. Among notable results was a new record for South Australia was the worm, *Nais barbata*, and range extensions for the midge Zavreliella marmorata, the odonate *Psuedagrion aureofrons* and the shrimp *Caridina indistincta.* The state EPA currently funds some ongoing monitoring of macro invertebrates and water chemistry at 15 sites in all parts of the state. The EPA has decided to increase the number of sites to about 25 from this year, so **Paul McEvoy**, **Vladimir Tsymbal**, **Tracy Corbin**, **Darren Hicks** and **Chris Madden** look forward to longer field trips this year for that project (especially in the Lake Eyre basin this winter!). **Peter Schultz** has left the Senior Biologist position in the Biomonitoring Unit to take up a postion with the Torrens and Patawalonga Catchment Boards as Environmental Flows Officer. Paul McEvoy has stepped up from within to fill Peter's position.

Glenys WOOD

TASMANIA

Department of Primary Industries, Water and Environment

Lionel Hill has started revising the 1987 Tasmanian Pasture Pests book by **Peter McQuillan** and **John Ireson** along with a computerised 'expert system' version of it. The book has been out of print for many years. Peter and John will be involved in the revision of what was one of the most popular and useful DPIWE pest publications.

Lionel reports that the Tasmanian Plant Pest Database (TPPD) now contains 36,000 specimen based records including 3,900 non Tasmanian specimens, which are mostly mainland and overseas specimens left at the New Town Laboratories Collection by **Arthur Lea** in 1911 when he moved to South Australia. Taxa with many specimen records include Curculionidae (2,700), Scarabaeidae (6,700), Aphidae (4,700), Miridae (1,000) and Noctuidae (7,200). Plant Health Australia stimulated 15,725 new records in the last two years by providing $24,500 funding to employ a technician. Lionel expects to see another 3,900 records entered in 2003-04, which will be the final year of the PHA project for accelerating data entry. Only specimens previously determined to species, or sometimes merely genus, are being recorded at present. Contact Lionel (Lionel.Hill@dpiwe.tas.gov.au) if you would like to work on the collection while at the Hobart AGM.

The TPPD also contains 11,500 records based on diagnostic reports of agricultural entomologists for the period 1967-87. These were previously published annually as Insect Pest Occurrences in Tasmania and 18,000 records based on 1,500 other publications, reports or letters. The latter set of records justifies storing the names of 14,000 species in the nomenclature table irrespective of whether there is a speci-

The Loxton Thrips Frighteners
Mark Hoddle, Sheridan Purvis, Mike Keller, Darryl Jackman and Greg Baker

men-based record available. Most of these names are Tasmanian species but a few cater for quarantine barrier records of which there are 1,600 based on specimens and 1,100 based on the publication Insect Pest Occurrences. Despite its name the TPPD includes many non-pest Tasmanian species represented in the collection or the library of 1500 references.

Owen Seeman has resigned from his position in DPIWE as of 1 August and has taken up the position of Assistant Curator of Arachnids at the Queensland Museum. Prior to leaving, he has assisted **Kirsten Lawton**, a CSIRO studentship college student, with her project that is examining the feeding and microhabitat preferences of the primitive mite *Allothyrus*, a putative sister-group to the ticks.

University of Tasmania

Progress towards September's AES and Invertebrate Biodiversity Conference in Hobart is going well, with a great range of symposia and presentations in the program. **Mamoru Matsuki** has relocated from the forestry CRC in Hobart to Albany, WA, where he takes up the IPMG position vacated by **Andrew Loch**. **Martin Steinbauer** and **Frederik Östrand** spent a week in Tasmania following up the results of their pheromone trap trials in the field. Frederik also presented a seminar showing the results to date of their pheromone trials both in Tasmania and on the mainland. **David de Little** has started work as a Research Associate with the forestry CRC, working on pests of seed orchards, based part-time in Hobart and Burnie. Congratulations to K**arina Potter** who recently submitted her PhD thesis on integrated weed manage-

ment for ragwort. **Helen Nahrung's** thesis has been accepted and she is moving back to the big island in August, where partner Owen Seeman has a job at the Queensland Museum.

Chris Palmer (ANU) spent another successful field season climbing ev'ry mountain to hunt the fascinating wingless scorpion fly. **Sue Baker** (Department of Zoology) has finished sorting beetles from a trial aimed at identifying edge effected and/or riparian dependant beetles in wet eucalypt forest. The final count was 13,367 beetles from 510 morphospecies and 51 families.

Marie Yee has just come back from a trip in the south of Germany, where she met with Drs **Frank Baum** and **Christian Maus** from FrEAK (Freiburger Entomolgischer Arbeitskreis) and Mr **Ulrich Bense** from FVA (Forest Research Institute of Baden-Wuerttemberg). They went searching for saproxylic beetles in the Black Forests (Schwarzwald) and the forests in the Baden-Wuerttemberg region and found the rare *Prostomis mandibularis* and *Lucanus cervus*.

Forestry Tasmania

Simon Grove's group has secured funding (internal and external) to appoint a technician, whose job is to sort the backlog of samples from a range of invertebrate biodiversity assessment projects and to continue reorganising the Tasmanian Forest Insect Collection. **Jane Elek** has been enjoying a study tour of North America, funded by the Australian Academy of Sciences, looking at strategies for registering and adopting more environmentally friendly insecticides in forestry. **Dick Bashford** has also been in North America on a Gottstein Fellowship where he has been examining ways to devise pheromone traps that are more effective for port surveillance use in Tasmania.

Owen SEEMAN

VICTORIA

Forensic Entomology Group
University of Melbourne / Victorian Institute of Forensic Medicine

The Victorian Institute of Forensic Medicine (VIFM) hosted the Meeting of Australian and New Zealand Forensic Entomologists on the 3rd and 4th July. The meeting, which was sponsored by the National Institute of Forensic Science, consisted of a series of discussion-based workshops designed to promote sharing of knowledge within the discipline. We covered diverse topics, including report writing, taxonomic identification, larval growth rate research, society formation, forensic entomology education, and the conflicting demands of science and the law. Discussions (as well as after-meeting drinks and dinners!) were extremely lively, and much fun was had by all. There were a variety of professionals present including practicing forensic entomologists from Victoria (**Mel Archer**), NSW (**James Wallman**) and New Zealand (**Dallas Bishop**), a former forensic entomology practitioner (**Garry Levot**), and postgraduate students (**Terry Eberhardt**, NZ, **Donnah Day**, NSW, and **Clare D'Alberto**, Vic). Also present were forensic pathologists, a paediatric pathologist, a forensic medical officer, forensic odontologists, a molecular biologist, an ecological experimental design and statistics expert (**Mark Elgar**), a document examiner, and a lawyer. Added to that were participants from the Victoria Police Homicide Squad and Crime Scene Unit. So, as you can imagine, we benefited from multiple perspectives on all of the issues examined!

Mel ARCHER

CESAR - Latrobe University

Biological indicators are well established as means of assessing aquatic health and are increasingly being used in terrestrial environments in agroecosystems and conservation contexts. The invertebrate component is particularly attractive in that invertebrates are the major component of biodiversity in any ecosystem, producing a potentially enormous data base to provide statistical power for discrimination and also invertebrates include organisms of direct relevance to economic sustainability – pests, control agents and soil organisms. Several projects are underway at CESAR monitoring invertebrates and insects in particular to determine practices which support sustainable outcomes. **Ange Tsitsilas** is documenting the insect and Arachnid fauna within shelterbelts established across pasture. This is allowing indicators of best practice for size and composition of revegetation plantings to optimize beneficials **Nick Lewis** is trapping insects across revegetated salinity gradients in a salt affected region of Victoria. The project is attempting to identify terrestrial bioindicators of salinity. The effect of management practices on beneficial insects contributing to pest control in vineyards is being investigated by **Linda Thomson.** Several trapping methods are in place to identify options which support hymenopteran parasitoids and predators such as Acarina, Dermaptera and Coleoptera. In a related project, **Matt Hall** is finding positive effects of remnant vegetation adjacent to vineyards on hymenopteran parasitoids.

DPI Tatura

Mofakhar Hossain is launching back overseas next

Monday for two months to visit **Robert Bartlett** at the USDA in Illinois to develop his work on attractants for Carpophilus beetles. After a summer season with very low Helicoverpa numbers, **Cathy Mansfield** is looking to expand her current project to include a relatively recent visitor to our region Western Flower Thrips. She is also starting up an awareness campaign to prevent WFT damage to developing fruitlets in orchards around the Goulburn Valley. **Alex Il'ichev** is currently overseas visiting our friends at Michigan State University and **Dave Williams** is flat out with Departmental restructures.

DPI Frankston

A number of native plants that have become established outside their area of origin are becoming serious environmental weeds. Two examples of this are Coastal Tea-tree (*Leptospermum laevigatum*), indigenous to coastal eastern Australia, and now found as an environmental weed in southern Western Australia, and Bluebell Creeper (*Sollya fusiformis*), indigenous to south-western Western Australia, and occurring as an invasive weed in temperate eastern Australia. **Anna Traeger** has recently started a PhD project at the University of Western Australia, supervised by **Helen Spafford Jacob** (UWA) and Mr. **El Bruzzese** (DPI Frankston) and funded by the CRC Australian Weed Management, studying the feasibility of biological control of such Australian native weeds. The study will provide information on the ecology of the plant species, natural enemy associations in their indigenous and invasive ranges, and factors that would be likely to influence the success of potential biological control agents.

Cathy MANSFIELD

Entomological Society of Victoria

At the Annual General Meeting in May, **Ken Walker** and **Ross Field** were elected as Honorary Life members in recognition of their long years of service to the Society and to the profession of entomology.

The new council commenced its term in office with a talk by **Ian Faithfull** on scarab beetles, illustrated with slides and hundreds of specimens from his own collection. As well as describing the subfamily groups he gave us lots of information on life history and ecological traits. In response to a request from members to include more insect specimens on meeting nights, **David Stewart** presented a case of Neuroptera and **Ian Endersby** gave a brief overview of the Order.

Future meetings this year will cover the Castniidae and some palaeoecology, and these will be held in the Melbourne Museum, our new venue courtesy of Ken Walker.

Allan Kellehear's final presidential address on the past and future of the Society was reprinted in the newsletter. The newsletter also included articles on butterfly behaviour and a reflection on the life of **Archie May**, well known to older members of the Society.

Ian ENDERSBY

WESTERN AUSTRALIA

AES in WA

The WA branch of the society held a seminar at UWA at the end of June. Thanks to **Phil Weinstein** for his considerable assistance with this. Few members attended, however those that did had an excellent time and we look forward to further seminars in the future.

Agriculture WA - Manjimup

Stewart Learmonth, Manjimup, spent most of May overseas. He visited the Scottish and Dutch seed potato certification centres, in Edinburgh and Emmeloord, to discuss virus vector monitoring and seed certification rules. He attended the 4th International workshop on Otiorhynchinae and related root weevils in Wageningen. On his way home, he visited entomologists in USA to discuss weevils some more, and soil pests in corn in Iowa and mealybugs in California.

WA Museum

All curatorial sections of the WA Museum are facing relocation from the centre of Perth to the industrial suburb of Welshpool. The WA government formally announced the move in June. The relocation has been brought on by concerns over asbestos and other occupational health and safety issues involving the Museum's Francis Street building. The move is being touted as an 'interim' one, pending the establishment of a new museum facility in the Perth precinct, but a 5-10 year time-frame for occupancy of the Welshpool factory site seems likely. The relocation is likely to be effected early in 2004. Meanwhile, **Terry Houston** has continued field studies on sandgropers, concentrating in May to July on a dense population on a farm near Dandaragan, 200 km north of Perth. Some surprising facts regarding their oviposition have emerged as a result.

Department of Conservation and Land Management

In late April **Inez Tommerup** from CSIRO Centre for Environment and Life Sciences and **Simon Southerton** from CSIRO in Canberra visited **Tom Burbidge** and spent about 90 minutes asking about what insects have been found in the blue gum plantations in WA. Another visitor to Tom a few days later

was **Roger Crabtree** from Rotorua in New Zealand who spent about 90 minutes talking on insect problems in the forests there and in particular Gum Leaf Skeletoniser, *Uraba lugens*, which has appeared in Auckland.

Spring beetles, *Liparetrus* spp, have been attacking *Eucalyptus plenissima* planted in a seed orchard at Canna approximately 340 km north of Perth in the NE wheatbelt. A species of *Catasarcus* weevil was found on *Corymbia maculata* at Allanooka Springs Agroforestry plot (350 km N Perth) and this turned out to be *Catasarcus echnida*. Tom has never seen this weevil attacking either eucalypts or corymbias before.

Janet Farr found *Cardiaspina fiscella* on a eucalypt tree near the Koala enclosure at Perth Zoo in late April. This tree is a food tree for the Koalas. This seems to be the first time that this species has been found in WA.

Mark Schutze, a PhD student at Queensland University of Technology (QUT) supervised by **Tony Clarke** has been sent some *Paropsis elytrura* by Tom Burbidge. Mark is trying to sort out the *Paropsis atomaria/elytrura* complex of Chrysomelids by molecular analysis.

Tara SIMMUL

AES NOMINATION OF OFFICERS & REGIONAL COUNCILLORS

Nominations for election or re-election of Officers and Regional Councillors at the Society's 34th AGM on Thursday 2nd October 2003 should be made on the form provided and should be sent to the Secretary to arrive no later than Friday 22nd August 2003.

OFFICERS

The President of the Society has held office for one annual term and is eligible for re-election. The News Bulletin Editor has held office for four annual terms and is eligible for re-election. The Public Officer has held office for two annual terms and is eligible for re-election. All other officers of the Society (Vice-President, Secretary, Treasurer and Chief Editor) have held office for three annual terms and are eligible for re-election.

REGIONAL COUNCILLORS

Regional Councillors are eligible for re-election for up to three years only. Those who will complete their three year term at the 2003 AGM are: Robin Gunning (NSW), Cathy Mansfield (Victoria) and Ross Field (Victoria). All other Regional Councillors are eligible for re-election.

REPRESENTATIVE COUNCILLORS

Representative councillors are elected by the affiliated societies. There is no restriction on term served in this capacity. Current councillors are: E. E. Taylor (Entomological Society of New South Wales), Dr Jenny Beard (Entomological Society of Queensland), Ian Endersby (acting) (Entomological Society of Victoria)

AUSTRALIAN ENTOMOLOGICAL SOCIETY INCORPORATED
NOMINATION OF OFFICER OR COUNCILLOR

I nominate .....
For election to the office of

.....

Name of nominator .....

Signature .....
Date .....

I second this nomination
Name of seconder .....

Signature .....
Date .....

I accept this nomination*

Signature .....
Date .....

*The nominee is requested to attach a typed statement not exceeding 300 words, which includes the following: professional qualifications, address, institution, position held, fields of entomological interest, previous offices or appointments held in the Society; any other information which may be of assistance to members.
Please send all nominations to Nancy Endersby, DPI, Private Bag 15, FERNTREE GULLY DELIVERY CENTRE VIC 3156 before Wednesday 14th August 2002.

AUSTRALIAN ENTOMOLOGICAL SOCIETY INCORPORATED

I,

of

Being a member of the above-named Society, hereby appoint

of

as my proxy to vote for me on my behalf at the Council meetings to be held on the 29th day of September 2003 and the 2nd day of October 2003 and the Annual General meeting of the Society to be held on the 2nd day of October 2003 and at any adjournment thereof.

Signed this day of 2003.

(Signature)

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY INC.
NOMINATION FOR MEMBERSHIP

Please return to: Ms Nancy Endersby, AES Secretary, c/o Institute for Horticultural Development, Private Bag 15, Ferntree Gully Delivery Centre VIC 3156 AUSTRALIA

We, the undersigned

Proposer .....
(print name) (signature)

Seconder .....
(print name) (signature)
being financial members of the Society, propose the following for membership of the Australian Entomological Society Inc.

Title.....Initials.....Given name.....Family name.....

of (Address) .....

.....Post Code.....

Tel. .....Fax .....

E-mail ..... Degrees, etc. .....

Interests, experience and publications in entomology for publication in the News Bulletin *Myrmecia* (please attach brief resumé) .....

I accept nomination and undertake, if elected, to abide by the rules of the Society and to pay annual subscriptions by the date prescribed.

Signature .....**Date** .....

For **2003**: Annual subscription $110.00; full-time student or retired members $55.00 (incl. GST)

Students please attach proof of full-time student status
Payment in Australian dollars is required with nomination and may be made by MONEY ORDER, CHEQUE (made payable to Australian Entomological Society Inc.) or CREDIT CARD

Bankcard Visa Mastercard

Cardholder Name _____
Number _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ Expiry date _ _/_ _

Signature _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _I require a receipt YES/ NO